

1 GTGACGCATGGAGTGGTAGCCGAGGAGGAAGC ATG CTG GCC GTC GGC TGC GCG CTG CTG GCT 63  
 1 M L A V G C A L L A 10  
 64 GCC CTG CTG GCC GCG CCG GGA GCG GCG CTG GCC CCA AGG CGC TGC CCT GCG CAG GAG GTG 123  
 11 A L L A A P G A A L A P R R C P A Q E V 30  
 124 GCA AGA GGC GTG CTG ACC AGT CTG CCA GGA GAC AGC GTG ACT CTG ACC TGC CCG GGG GTA 183  
 31 A R G V L T S L P G D S V T L T C P G V 50  
 184 GAG CCG GAA GAC AAT GCC ACT GTT CAC TGG GTG CTC AGG AAG CCG GCT GCA GGC TCC CAC 243  
 51 E P E D N A T V H W V L R K P A A G S H 70  
 244 CCC AGC AGA TGG GCT GGC ATG GGA AGG AGG CTG CTG CTG AGG TCG GTG CAG CTC CAC GAC 303  
 71 P S R W A G M G R R L L L R S V Q L H D 90  
 304 TCT GGA AAC TAT TCA TGC TAC CCG GCC GGC CGC CCA GCT GGG ACT GTG CAC TTG CTG GTG 363  
 91 S G N Y S C Y R A G R P A G T V H L L V 110  
 364 GAT GTT CCC CCC GAG GAG CCC CAG CTC TCC TGC TTC CGG AAG AGC CCC CTC AGC AAT GTT 423  
 111 D V P P E E P Q L S C F R K S P L S N V 130  
 424 GTT TGT GAG TGG GGT CCT CGG AGC ACC CCA TCC CTG ACG ACA AAG GCT GTG CTC TTG GTG 483  
 131 V C E W G P R S T P S L T T K A V L L V 150  
 484 AGG AAG TTT CAG AAC AGT CCG GCC GAA GAC TTC CAG GAG CCG TGC CAG TAT TCC CAG GAG 543  
 151 R K F Q N S P A E D F Q E P C Q Y S Q E 170  
 544 TCC CAG AAG TTC TCC TGC CAG TTA GCA GTC CCG GAG GGA GAC AGC TCT TTC TAC ATA GTG 603  
 171 S Q K F S C Q L A V P E G D S S F Y I V 190  
 604 TCC ATG TGC GTC GCC AGT AGT GTC GGG AGC AAG TTC AGC AAA ACT CAA ACC TTT CAG GGT 663  
 191 S M C V A S S V G S K F S K T Q T F Q G 210  
 664 TGT GGA ATC TTG CAG CCT GAT CCG CCT GCC AAC ATC ACA GTC ACT GCC GTG GCC AGA AAC 723  
 211 C G I L Q P D P P A N I T V T A V A R N 230  
 724 CCC CGC TGG CTC AGT GTC ACC TGG CAA GAC CCC CAC TCC TGG AAC TCA TCT TTC TAC AGA 783  
 231 P R W L S V T W Q D P H S W N S S F Y R 250  
 784 CTA CGG TTT GAG CTC AGA TAT CGG GCT GAA CGG TCA AAG ACA TTC ACA ACA TGG ATG GTC 843  
 251 L R F E L R Y R A E R S K T F T T W M V 270  
 844 AAG GAC CTC CAG CAT CAC TGT GTC ATC CAC GAC GCC TGG AGC GGC CTG AGG CAC GTG GTG 903  
 271 K D L Q H H C V I H D A W S G L R H V V 290  
 904 CAG CTT CGT GCC CAG GAG GAG TTC GGG CAA GGC GAG TGG AGC GAG TGG AGC CCG GAG GCC 963  
 291 Q L R A Q E E F G Q G E W S E W S P E A 310  
 964 ATG GGC ACG CCT TGG ACA GAA TCC AGG AGT CCT CCA GCT CGA GGA GGT GGA GGT TCT GGA 1023  
 311 M G T P W T E S R S P P A R G G G S G 330  
 1024 GGT GGA GGT TCT GGA GGT GGA GGT TCT GTC GAG CCA GTA CCC CCA GGA GAA GAT TCC AAA 1083  
 331 G G G S G G G S V E P V P P G E D S K 350  
 1084 GAT GTA GCC GCC CCA CAC AGA CAG CCA CTC ACC TCT TCA GAA CGA ATT GAC AAA CAA ATT 1143  
 351 D V A A P H R Q P L T S S E R I D K Q I 370  
 1144 CGG TAC ATC CTC GAC GGC ATC TCA GCC CTG AGA AAG GAG ACA TGT AAC AAG AGT AAC ATG 1203  
 371 R Y I L D G I S A L R K E T C N K S N M 390  
 1204 TGT GAA AGC AGC AAA GAG GCA CTG GCA GAA AAC AAC CTG AAC CTT CCA AAG ATG GCT GAA 1263  
 391 C E S S K E A L A E N N L N L P K M A E 410  
 1264 AAA GAT GGA TGC TTC CAA TCT GGA TTC AAT GAG GAG ACT TGC CTG GTG AAA ATC ATC ACT 1323  
 411 K D G C F Q S G F N E E T C L V K I I T 430  
 1324 GGT CTT TTG GAG TTT GAG GTA TAC CTA GAG TAC CTC CAG AAC AGA TTT GAG AGT AGT GAG 1383  
 431 G L L E F E V Y L E Y L Q N R F E S S E 450  
 1384 GAA CAA GCC AGA GCT GTG CAG ATG AGT ACA AAA GTC CTG ATC CAG TTC CTG CAG AAA AAG 1443  
 451 E Q A R A V Q M S T K V L I Q F L Q K K 470  
 1444 GCA AAG AAT CTA GAT GCA ATA ACC ACC CCT GAC CCA ACC ACA AAT GCC AGC CTG CTG ACG 1503  
 471 A K N L D A I T T P D P T T N A S L L T 490  
 1504 AAG CTG CAG GCA CAG AAC CAG TGG CTG CAG GAC ATG ACA ACT CAT CTC ATT CTG CGC AGC 1563  
 491 K L Q A Q N Q W L Q D M T T H L I L R S 510  
 1564 TTT AAG GAG TTC CTG CAG TCC AGC CTG AGG GCT CTT CGG CAA ATG TAG CATGGGCACCGTCGAC 1627  
 511 F K E F L Q S S L R A L R Q M \* 525

FIG. 1

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1 GTGAGCGC ATG GAG TGG TAG CCGAGGAGGAAGC ATG CTG GCC GTC GGC TGC GCG CTG CTG GCT 63
1 M L A V G C A L L A 10

64 GCC CTG CTG GCC GCG CCG GGA GCG GCG CTG GCC CCA AGS CGC TGC CCT GCG CAG GAG GTG 123
11 A L L A A P G A A L A P R R C P A Q E V 30

124 GCA AGA GGC GTG CTG ACC AGT CTG CCA GGA GAC AGC GTG ACT CTG ACC TGC CCG GGG GTA 183
31 A R G V L T S L P G D S V T L T C P G V 50

184 GAC CCG GAA GAC AAT GCC ACT GTT CAC TGG GTG CTC AGG AAG CCG GCT GCA GGC TCC CAC 243
51 E P E D N A T V H W V L R K P A A G S H 70

244 CCC AGC AGA TGG GCT GGC ATG GGA AGG AGG CTG CTG CTG AGG TCG GTG CAG CTC CAC GAC 303
71 P S R W A G M G R R L L L R S V Q L H D 90

304 TCT GGA AAC TAT TCA TGC TAC CGG GCC GGC CGC CCA GCT GGG ACT GTG CAC TTG CTG GTG 363
91 S G N Y S C Y R A G R P A G T V H L L V 110

364 GAT GTT CCC CCC GAG GAG CCC CAG CTC TCC TGC TTC CGG AAG AGC CCC CTC AGC AAT GTT 423
111 D V P P E E P Q L S C F R K S P L S A N V 130

424 GTT TGT GAG TGG GGT CCT CGG AGC ACC CCA TCC CTG ACG ACA AAG GCT GTG CTC TTG GTG 483
131 V C E W G P R S T P S L T T K A V L L V 150

484 AGG AAG TTT CAG AAC AGT CCG GCC GAA GAC TTC CAG GAG CCG TGC CAG TAT TCC CAG GAG 543
151 R K F Q N S P A E D F Q E P C Q Y S Q E 170

544 TCC CAG AAG TTC TCC TGC CAG TTA GCA GTC CCG GAG GGA GAC AGC TCT TTC TAC ATA GTG 603
171 S Q K F S C Q L A V C P E G D S S F Y I V 190

604 TCC ATG TGC GTC GCC AGT AGT GTC GGG AGC AAG TTC AGC AAA ACT CAA ACC TTT CAG GGT 663
191 S M C V A S S V G S K F S K T Q T F Q G 210

664 TGT GGA ATC TTG CAG CCT GAT CCG CCT GCC AAC ATC ACA GTC ACT GCC GTG GCC AGA AAC 723
211 C G I L Q P P A N I T V T A V A R N 230

724 CCC CGC TGG CTC AGT GTC ACC TGG CAA GAC CCC CAC TCC TGG AAC TCA TCT TTC TAC AGA 783
231 P R W L S V T W Q D P H S W N S S F Y R 250

784 CTA CGG TTT GAG CTC AGA TAT CGG GCT GAA CGG TCA AAG ACA TTC ACA ACA TGG ATG GTC 843
251 L R F E L R Y R A E R S K T F T T W M V 270

844 AAG GAC CTC CAG CAT CAC TGT GTC ATC CAC GAC GCC TGG AGC GGC CTG AGG CAC GTG GTG 903
271 K D L H C V I H D A W S G L R H V V 290

904 CAG CTT CGT GCC CAG GAG GAG TTC GGG CAA GGC GAG TGG AGC GAG TGG AGC CCG GAG GCC 963
291 Q L R A Q E E F G Q G E W S E W S P E A 310

964 ATG GGC ACG CCT TGG ACA GAA TCC AGG AGT CCT CCA GCT CGA GGA GGT GGA GGT TCT GGA 1023
311 M G T P W T E S R S P P A R G G G G S G 330

1024 GGT GGA GGT TCT GTC GAG CCA GTA CCC CCA GGA GAA GAT TCC AAA GAT GTA GCC GCC CCA 1083
331 G G G V E P V P P E D S K D V A A P 350

1084 CAC AGA CAG CCA CTC ACC TCT TCA GAA CGA ATT GAC AAA CAA ATT CGG TAC ATC CTC GAC 1143
351 H R Q P L T S E R I D K Q I R Y I L D 370

1144 GGC ATC TCA GCC CTG AGA AAG GAG ACA TGT AAC AAG AGT AAC ATG TGT GAA AGC AGC AAA 1203
371 G I S A L R K E T C N K S N M C E S S K 390

1204 GAG GCA CTG GCA GAA AAC AAC CTG AAC CTT CCA AAG ATG GCT GAA AAA GAT GGA TGC TTC 1263
391 E A L A E N N L P K M A E K D G C F 410

1264 CAA TCT GGA TTC AAT GAG GAG ACT TGC CTG GTG AAA ATC ATC ACT GGT CTT TTG GAG TTT 1323
411 Q S G F N E E T C L V K I I T G L L E F 430

1324 GAG GTA TAC CTA GAG TAC CTC CAG AAC AGA TTT GAG AGT AGT GAG GAA CAA GCC AGA GCT 1383
431 E V Y L E Y L Q N R F E S S E E Q A R A 450

1384 GTG CAG ATG AGT ACA AAA GTC CTG ATC CAG TTC CTG CAG AAA AAG GCA AAG AAT CTA GAT 1443
451 V Q M S T K V L I Q G F L Q K K A K N L D 470

1444 GCA ATA ACC ACC CCT GAC CCA ACC ACA AAT GCC AGC CTG CTG ACG AAG CTG CAG GCA CAG 1503
471 A I T T P D P T T N A S L L T K L Q A Q 490

1504 AAC CAG TGG CTG CAG GAC ATG ACA ACT CAT CTC ATT CTG CGC AGC TTT AAG GAG TTC CTG 1563
491 N Q W L Q D M T T H L I L R S F K E F L 510

1564 CAG TCC AGC CTG AGG GCT CTT CGG CAA ATG TAG C ATG GGC ACC GTC GAC 1612
511 Q S S L R A L R Q M * 520

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FIG. 2

Met	Asn	Ser	Phe	Ser	Thr	Ser	Ala	Phe	Gly	Pro	Val	Ala	Phe	Ser	Leu
Gly	Leu	Leu	Leu	Val	Leu	Pro	Ala	Ala	Phe	Pro	Ala	Pro	Val	Pro	Pro
															1
Gly	Glu	Asp	Ser	Lys	Asp	Val	Ala	Ala	Pro	His	Arg	Gln	Pro	Leu	Thr
5					10					15					20
Ser	Ser	Glu	Arg	Ile	Asp	Lys	Gln	Ile	Arg	Tyr	Ile	Leu	Asp	Gly	Ile
				25					30					35	
Ser	Ala	Leu	Arg	Lys	Glu	Thr	Cys	Asn	Lys	Ser	Asn	Met	Cys	Glu	Ser
			40					45					50		
Ser	Pro	Glu	Ala	Leu	Ala	Glu	Asn	Asn	Leu	Asn	Leu	Pro	Lys	Met	Ala
		55					60					65			
Glu	Lys	Asp	Gly	Cys	Phe	Gln	Ser	Gly	Phe	Asn	Glu	Glu	Thr	Cys	Leu
	70					75					80				
Val	Lys	Ile	Ile	Thr	Gly	Leu	Leu	Glu	Phe	Glu	Val	Tyr	Leu	Glu	Tyr
85					90					95					100
Leu	Gln	Asn	Arg	Phe	Glu	Ser	Ser	Glu	Glu	Gln	Ala	Arg	Ala	Val	Gln
				105					110					115	
Met	Ser	Thr	Lys	Val	Leu	Ile	Gln	Phe	Leu	Gln	Lys	Lys	Ala	Lys	Asn
			120					125					130		
Leu	Asp	Ala	Ile	Thr	Thr	Pro	Asp	Pro	Thr	Thr	Asn	Ala	Ser	Leu	Leu
		135					140					145			
Thr	Lys	Leu	Gln	Ala	Gln	Asn	Gln	Trp	Leu	Glu	Asp	Met	Pro	Thr	His
	150					155					160				
Leu	Ile	Leu	Arg	Ser	Leu	Lys	Glu	Phe	Leu	Gln	Arg	Ser	Leu	Arg	Ala
165					170					175					180
Leu	Arg	Gln	Met												
			184												

FIG. 3

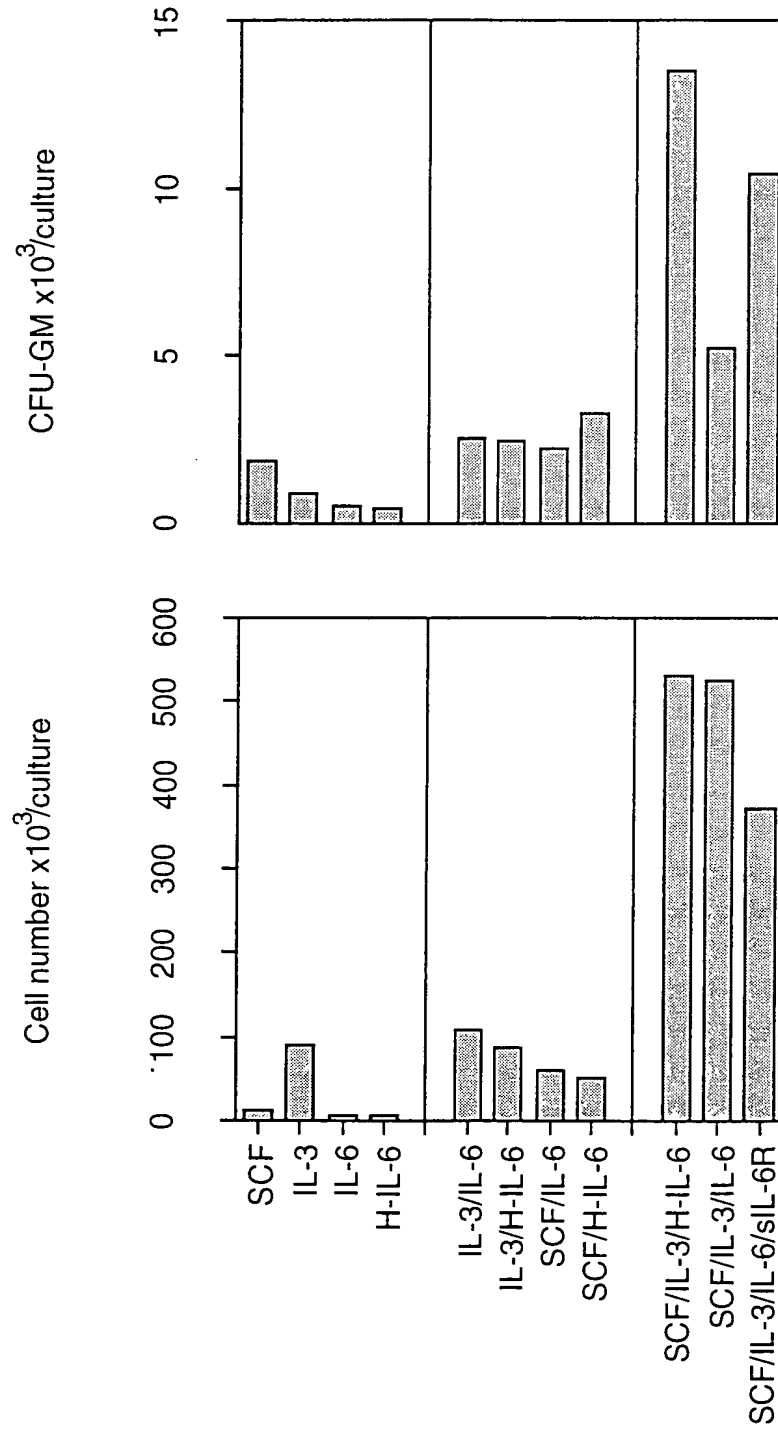


FIG. 4